

Reading by Numbers

You need: a calculator (optional)

ACTIVITY

Palindromes are words or phrases that read the same backwards as forwards. Mum, Dad, and “a Toyota” are good examples. A well-known example of a longer palindrome is “a man, a plan, a canal, Panama”.

Palindromic numbers are numbers that read the same backwards as forwards, such as 22, 353, and 49 194.

You can create a palindromic number by reversing the digits in a number and adding this new number to the original number. Sometimes it can take several steps to get a palindromic number.

13 + 31 = 44
A one-step
palindrome

37 + 73 = 110
110 + 011 = 121
A two-step
palindrome

59 + 95 = 154
154 + 451 = 605
605 + 506 = 1 111
A three-step
palindrome

- Create some palindromic numbers of your own.
 - Can you make palindromic numbers from decimal numbers?
- What happens if you start with a 3-digit number?
- If you really want a challenge, try starting with 89. It's rather long!